



# 2021 Sustainability Report

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## Letter from the Global Director of Corporate Sustainability

In the early days of the internet, Akamai set out to solve the “World Wide Wait.” Two decades later, we are still hard at work solving the significant performance and security challenges that remain.

Akamai’s purpose is to make life better for billions of people, billions of times a day. This purpose permeates our culture, underscoring our company values across all our stakeholder groups. Environmental sustainability is core to our purpose.

Environmental sustainability is not new to us. We have been working on creating a more sustainable enterprise since 2009. In 2015, we set ambitious goals — to reduce our emissions by 30% year over year, power our network with 50% renewable energy, and recycle 100% of our e-waste — all by the end of 2020. Our achievement of these goals set the stage for even more ambitious plans for the future.

In 2021, we took the next step in living our values, embarking on our environmental, social, and governance (ESG) journey. We established a formal ESG office to develop and execute a cohesive ESG strategy, with the primary environmental objective of ushering in an emissions-free Akamai Intelligent Edge Platform powered by 100% renewable energy by 2030.

To realize this ambition, we developed five new sustainability goals that focus on three areas of our business: the Akamai Intelligent Edge Platform, the communities in which we live and work, and our global supply chain.

Our five new goals are ambitious. These goals have set the stage for us to contribute to the United Nations’ Sustainable Development Goals and pledge



our support for Business Ambition for 1.5°C under the Science-Based Targets initiative. Our 2030 goals were assembled to inspire innovation and build a more environmentally friendly internet to benefit all of Akamai’s stakeholders worldwide.

**“To go far, we must go together.”**

— African proverb

We can’t do it alone. It’s essential that we look beyond our own operations to partner with our suppliers on taking sustainable action. We firmly believe that the opportunity for real, sustainable progress is an industry-wide one. Only working together, as a collective driving force, can we truly help build a more sustainable internet for all.

— **Mike Mattera**

*Global Director of Corporate Sustainability*

# Helping to Build a More Sustainable Internet

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As of January 2022, there were 4.95 billion internet users. Three in every five people worldwide use the internet today.<sup>1</sup>

Humanity's reliance on the internet has evolved over the last 20 years to become an integral part of everyday life. This was even more true in the past two years as the internet became a critical lifeline for us all, powering the way we work, live, transact, learn, and play.

The internet has revolutionized how we live our lives — and the Akamai Intelligent Edge plays an enormous role in this change. The Akamai Intelligent Edge network creates better life experiences for billions of people by securing and delivering their online experiences.<sup>2</sup>

But powering life online comes with a catch. If you peek behind the curtain of the cloud, you will find thousands of data centers<sup>3</sup> (many as big as football fields) that are estimated to account for approximately 1% of global electricity demand.<sup>4</sup>

This highlights a less-discussed impact of the internet: the environmental one. It is estimated that by 2025, up to one-fifth of the world's electricity could be needed to power information communications technology (ICT), emitting up to 5.5% of the world's carbon emissions.<sup>5</sup> That's more than most countries' current total emissions, with the exception of China, India, and the United States.<sup>6</sup>

It is time for companies in the internet industry (and beyond) to take shared responsibility for their role in climate change and use advancements and efficiencies to reduce their impact.

There is a bright side: Companies and countries alike are taking a stance on climate change. More than 200 of the largest companies have taken The Climate Pledge<sup>7</sup> to achieve net-zero emissions by 2040, and more than 15,400 companies and non-businesses have embraced the commitments of the UN Global Compact.<sup>8</sup> Of the more than 2,000 companies working with the Science Based Targets initiative to reduce their emissions in line with climate science, more than half have committed to the Business Ambition 1.5°C initiative, including Akamai.<sup>9</sup>

As a key part of the modern internet, Akamai has a responsibility to reduce our environmental impacts. To fulfill that commitment, we are focused on achieving five goals to reduce and mitigate our effects on the environment by 2030.<sup>10</sup> They are:

1. 100% renewably sourced energy
2. 50% more energy-efficient platform
3. 100% platform emissions mitigation
4. Responsible supply chain management
5. Global expansion of 100% e-waste recycling

We also have a responsibility to be transparent about our plans and our progress. This report outlines how we have kept our promises with the progress we have already made; how we are overcoming headwinds; and how we are mobilizing our people, our business, and our supply chain to make more sustainable decisions now and for the future.

The internet has revolutionized our lives. Let's work together to build a more sustainable internet for all.



## 100% renewably sourced energy

Akamai has set the goal of using 100% renewable power by 2030. We plan to achieve this by procuring clean and renewable power sources by ourselves, with our suppliers and those interested in aggregation. In 2021, the Akamai Intelligent Edge Platform used 746,610 megawatt hours (MWh) of energy, which is enough energy to power approximately 63,717 homes or about 64,370,000,000 smartphones.<sup>11</sup> Of those MWh, we used 373,100 MWh of green energy, 20% of which was created by Akamai project investments.<sup>12</sup>

### Our progress by the numbers<sup>13</sup>

Akamai Global Intelligent Platform Data as of Jan 1, 2022

**170**

Renewable Data  
Center Facilities in  
2021

**3**

Virtual Power  
Purchase Agreements  
in the United States

**80%**

Attestable Sources of  
Renewable Power in  
Europe During 2021

**47%**

Platform Emissions  
Goal Met in 2021

**746,610**

MWh Power Used in  
Colocation Facilities  
Scope 2 and Scope 3  
in 2021<sup>14</sup>

**50%**

Percentage of Green  
Power in 2021<sup>15</sup>

## Clean energy projects

Akamai is striving for a meaningful approach to renewable energy. Accordingly, our goal of 100% renewable energy to power our global operations is intended to be achieved by putting net-new renewable energy on the grid whenever possible. This is created from investment in purchaser-caused renewable energy like a power purchase agreement (PPA) or virtual power purchase agreement (vPPA), so we obtain market-connected renewable energy credits to attribute to our operations. The best examples of this are Akamai's three existing renewable projects: a wind farm in Texas,<sup>16</sup> a solar array in Virginia, and a wind farm in Illinois.<sup>17</sup>

In 2021, we added a fourth renewable energy project to our portfolio. Together with MilliporeSigma, Synopsys, and Uber, Akamai signed a vPPA with Enel Green Power for the energy produced by a 111 MW portion of the Azure Sky wind project located in northern Texas.<sup>18</sup> Together, we leveraged our collective buying power to serve as an anchor tenant for the project, demonstrating the benefits of collaboration among businesses with smaller and more distributed energy needs.

As we continue down the path of purchaser-caused renewable energy, we anticipate facing some headwinds. We know that the distributed nature of our network means that we rely on energy sources from around the world, where renewable energy isn't always reliable or readily accessible. Where we can't source purchaser-caused renewable energy, we intend to procure renewable power as close to our operations as possible through meaningful utility, supplier, or other market-based options that provide traceable renewable energy certificates, such as those with Green-e certification.

## Green energy from partners

We rely heavily on our data center partners to provide renewable energy to power our operations. Akamai is fortunate to work primarily with data center providers who share our concern about environmental impact and we prioritize working with those that pass through renewable energy to power our operations.

Since more than 88% of our network deployment reside in our colocation partner facilities,<sup>19</sup> our combined efforts have had quite an impact. We know that renewable energy procurement can be difficult, so we have collaborated with the Clean Energy Buyers Alliance (CEBA)<sup>20</sup> to offer training for our partners to simplify their procurement of renewable power. The LESSor Sustainable Energy Network (LESSEN)<sup>21</sup> was created by CEBA in partnership with Akamai for data center and real estate investment trusts to gain a straightforward, real-world approach to renewable energy procurement.

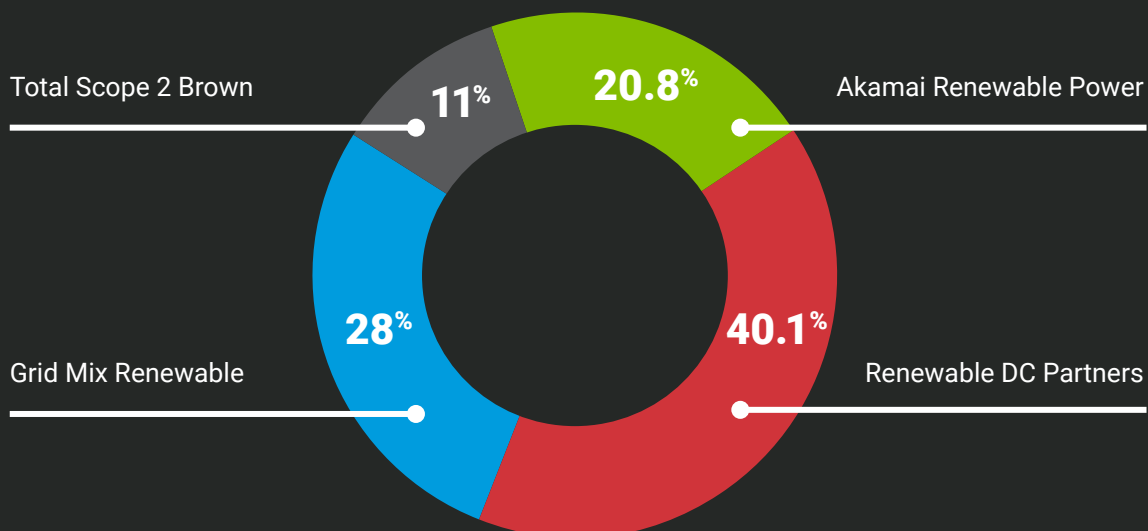
We are proud to partner with many colocation providers through the Future of Internet Power (FoIP)<sup>22</sup>, an initiative led by a coalition of CEBA members.

**“We are thrilled that Akamai has continued to support the LESSEN Program into its second season and continues to double down on impact in the data center and wider real estate sector. We see the LESSEN program as a key part of how we can decarbonize our society, and are continually thankful for Akamai’s innovation in the creation/support of such programs.”**

— Mark Porter, Vice President of Programs, CEBA

FoIP brings together companies to address challenges and collaborate on solutions that will enhance the ability of colocation providers to procure renewable energy to power data centers. Together, FoIP is aiming to power the internet with 100% renewable energy. Akamai is also a contributing member and a signatory of FoIP’s Corporate Colocation and Cloud Buyers’ Principles.

### Renewable Energy Mix<sup>23</sup>



Since 2018, despite capacity increases of over 400%, we have reduced emissions output by more than 30%. This was due to a combination of mitigation activities through our colocation attestations from our work with the FoIP and our own renewable energy projects. Colocation attestation is a method that allows us to receive attested forms of renewable energy or bundled certificates that match our footprint, so we can apply meaningful reductions to our emissions output.

### **Building a best-in-class renewable energy program**

While there are companies making impressive commitments and meaningful change, it is important to understand the nuances of renewable energy commitments and what elevates some programs above the rest.

To reduce the emissions impact from our Akamai Intelligent Edge Platform growth, we believe that the best renewable energy commitments are ones that focus on adding more renewable energy to the global grid. Why? Because not all renewable energy commitments are realized the same way. Many companies leverage unbundled renewable energy credits (RECs) to quickly achieve their renewable energy objectives.<sup>24</sup>

Unbundled RECs are relatively inexpensive and widely available. They can be purchased from power wholesalers, resellers, and deal desks at any time, making unbundled RECs one of the most flexible – and popular – ways to reach renewable energy targets quickly. Leveraging unbundled RECs signals demand in the energy market for more renewable energy but often does not add new renewable energy sources to the grid.<sup>25</sup>

Akamai has prioritized bundled RECs (meaning those tied to renewable energy projects) to substantiate our renewable energy claims. With our global goal to use primarily bundled RECs, we aspire to decrease fossil fuel emissions from our power usage as meaningfully as possible. To work to achieve this goal, Akamai is making corporate investments to support the creation of more renewable and clean energy sources on the global grid close to the areas where we have operations.

Akamai understands that it is not likely possible to cover all of our operations with bundled RECs based on the global presence of the Akamai Intelligent Edge. As a part of our 100% renewable energy goal, Akamai recognizes that unbundled RECs will also be essential in achieving our clean energy goals in the long term.

### **92% of our annual emissions comes from the Akamai Intelligent Edge Platform**

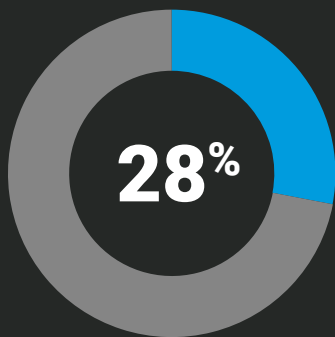
Today, Akamai operates in more than 4,000 locations globally<sup>26</sup> with various power consumption across each of those operations. We acknowledge that unbundled RECs, especially in some of the more extended areas of our platform, will be the only option to meet our sustainability goals. Prioritizing our reliance on bundled RECs substantiates our renewable energy strategy. This prioritization helps drive the creation of more renewable and clean sources of energy globally and directly correlates to reducing our impact on climate change.



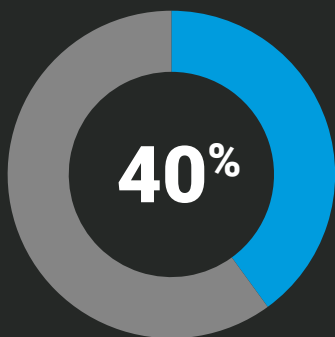
## 50% more energy efficient platform

Making the Akamai Intelligent Edge Platform more efficient is a critical step in using our power effectively across our operations and is the basis of our 50% platform efficiency by 2030 goal.

Improvement Since 2020 in MWh Used per Mbps of Network Capacity



Improvement Since 2020 in Emissions Output per Mbps of Capacity



When we say more efficient, we mean less energy-intensive to minimize our emissions output. Efficiency is measured by the amount of power the platform uses in comparison with network capacity, also known as MWh to Mbps of platform capacity. As a part of this measure, these figures also include average data center power usage effectiveness (PUE) to determine

how well we use all our power across the Akamai Intelligent Edge.

Since 2020, we have made our network 28% more efficient, despite capacity increases of 60%. By doing this, we've been able to reduce our scope 2 emissions by 47% from 2020.<sup>A2</sup> Today, our emissions in metric tons (MTs) per MWh are at an all-time low of 0.1385 on average, globally.<sup>27</sup>

Making life better for billions of people billions of times per day means that we are always "on" at the edge of the internet, delivering content, thwarting the largest distributed denial-of-service attacks, protecting customers from bot attacks, and stopping ransomware in its tracks. Our always-on approach requires Akamai to maintain racks and racks of hardware, primed and ready for a surge of traffic at any time. This is a huge benefit for customers and an area of opportunity for our efficiency and sustainability efforts to work in harmony.

Building an efficient platform and measuring improvements in energy use and emissions can be difficult. We start by ascertaining our total available capacity (in Mbps), the amount of energy (in MWh) needed to sustain that capacity, and the resulting emissions (CO<sub>2</sub>e in MT) outputted by our global operations.<sup>A2</sup> Capacity is a critical variable that drives environmental impact, and the required available capacity increases as internet usage grows.

We therefore integrate our sustainability efforts into the Intelligent Edge Platform by relentlessly pursuing improved efficiency through reduced power needs and improved software that more effectively uses our deployed hardware. These efficiency improvements enable us to decrease our energy use and emissions even while growing the capacity of our platform exponentially.



As our engineers continue to develop emerging technologies, such as serverless computing, we continuously reassess our MWh per Mbps measurements to promote accuracy in measuring our impact and environmental performance relative to the continued expansion of our business.

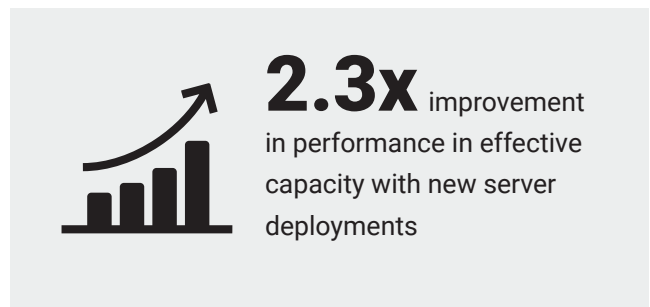
We continue to see a downward trend, per unit of capacity both in terms of power needs and emissions output. Our efficiency strategy and science-based approach has helped drive these reductions since 2015.

## Hardware efficiencies

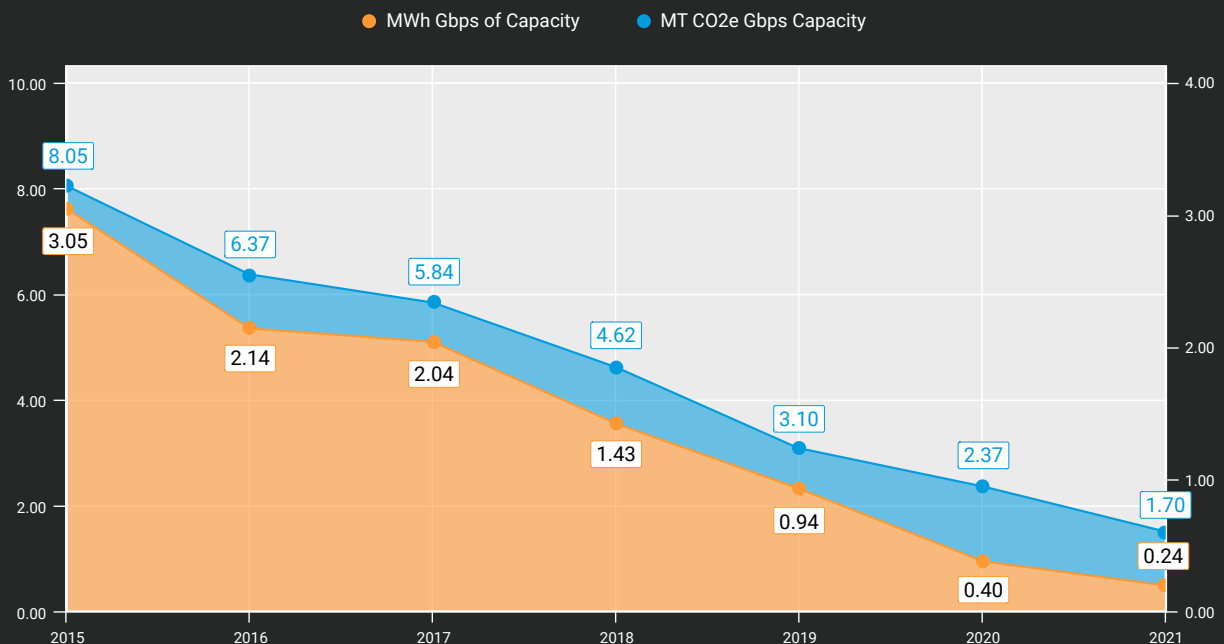
Our hardware engineering team continues to develop more resilient, innovative, and power-efficient servers and works with our suppliers to build them. We design them to deliver more traffic in a similar deployment footprint, meaning we use about the same amount of power to deliver more traffic. Servers are also built to withstand higher temperatures, reducing the energy

needed to cool them. Running our servers even a few degrees hotter than usual means that we save enormous amounts of energy powering the same amount of servers to deliver more traffic.

When comparing two commonly deployed server types on the Akamai Intelligent Edge across a sample of 26 different traffic types, new hardware advancements have improved throughput per deployed server by 2.3 times.<sup>28</sup> This improvement makes more effective use of deployed capacity while using a similar power and rack footprint.



## Gbps of Platform Capacity<sup>29</sup>

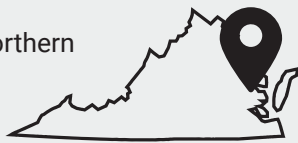


## Environmental design considerations in Akamai facilities<sup>30</sup>

The best example of our hardware efficiencies in action can be found in our Akamai-owned data centers (AODC). Over the past two years we developed our own purpose-built facilities to control the environmental conditions more directly and to push our hardware to its operational tolerances to reduce energy needs.

# 1.19

Average PUE in Our Northern Virginia AODC Facility During 2021<sup>31</sup>



# 1.25

Average PUE in Our Northern New Jersey AODC Facility During 2021<sup>32</sup>



On average, our AODC facilities run hotter than servers in other colocation facilities and they use sustainable cooling solutions, such as outside air, to consume power more intelligently. These facilities achieve, on average, between 1.09 and 1.25 year-round power usage effectiveness.<sup>33</sup>

As noted previously, Akamai prioritizes colocation partners that operate their facilities under environmentally conscious standards such as Leadership in Energy and Environmental Design (LEED)<sup>34</sup> or Energy Star.<sup>35</sup> We work with our colocation partners before and during our contract to continue to work to improve the mix of renewable energy.

If needed, we offer partnership and guidance to educate colocation partners on renewable energy best practices, such as those outlined in the FoIP Corporate Colocation and Cloud Buyers' Principles.<sup>36</sup>

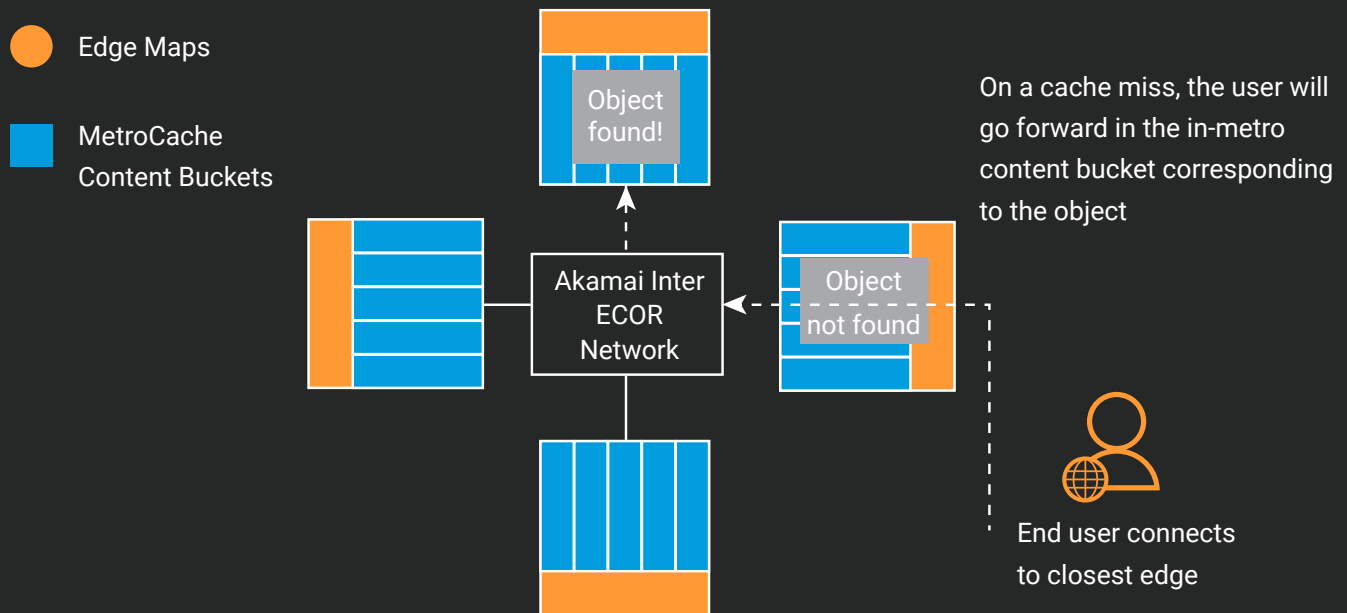
Using FoIP's widely accepted standards from a procurement and provider perspective, we get space, power, and connectivity that meets our requirements, while aiming to minimize the environmental impact of our operations.

## Software efficiencies

We build our software to make efficient use of our hardware. Akamai engineers design software that streamlines and makes work parallel whenever possible to only use the necessary servers to deliver and secure traffic.

Our engineers continuously audit the Akamai Intelligent Edge Platform to find efficiencies to implement that will ensure resources like computing and storage capacity do not go to waste.

One example of this innovation is Akamai's adoption of metro caching, which allows us to use our deployed disk space in a specific metro (defined geographic region) to the fullest extent of its capacity by avoiding duplicating caching. Traditionally, internet service providers (ISPs) typically have their own proprietary servers that deliver traffic to a specific metro. Normally, when an end user requests content, the ISP's servers review the cached data first, before going to fetch at origin (in line with basic efficiency principles). People in the same metro, however, often consume similar or identical content, and if a different ISP handles another end user's request for the same data, this results in numerous servers maintaining separate, largely identical caches for the same content. Duplicative content means the use of extra disk space that must be powered, cooled, and eventually recycled.



Metro caching is designed to eliminate the space needed to host duplicate information in the same location.

This enables us to be more agile in how we store content. Instead of storing content based on the ISP, metro caching uses the disk space in each of these servers as a joint cache, eliminating the need for content duplication. This helps reduce the amount of energy needed to power and cool the extra servers caching the same content.

With Akamai's scale, metro caching allows us to get a better handle on data duplication and enables us to use less disk space overall while reducing our energy consumption, colocation footprint, and emissions output.

### Metro caching efficiency gains

Metro caching is designed to make the storage, delivery, and security of content require one-half to one-third less disk space than it did before<sup>37</sup> in an effort to make us approximately two to three times more efficient in storing and delivering data for our customers.<sup>38</sup>

So, in addition to reduced energy consumption, metro caching's improved storage efficiency means that our power-conscious network will likely use fewer servers now and in the future for the same amount of traffic, thus reducing eventual e-waste.

Striving to ensure an efficient network also helps us achieve another sustainability goal focused on mitigating our platform emissions.



## 1/2 to 1/3

Less Disk Space Required

## 2x to 3x

More Efficient in Storing and Delivering Data



## 100% platform emissions mitigation

Akamai has an additional goal to mitigate 100% of our platform greenhouse gas (GHG) emissions by 2030. Achieving a net-zero emissions goal is especially challenging for Akamai, as we have widely distributed operations in more than 830 cities globally.<sup>39</sup> Attaining this goal requires reducing scope 1, 2, and 3 emissions to zero or to a residual level. This means we must neutralize any residual emissions at the net-zero target year and any GHG emissions released into the atmosphere afterward.<sup>40</sup>

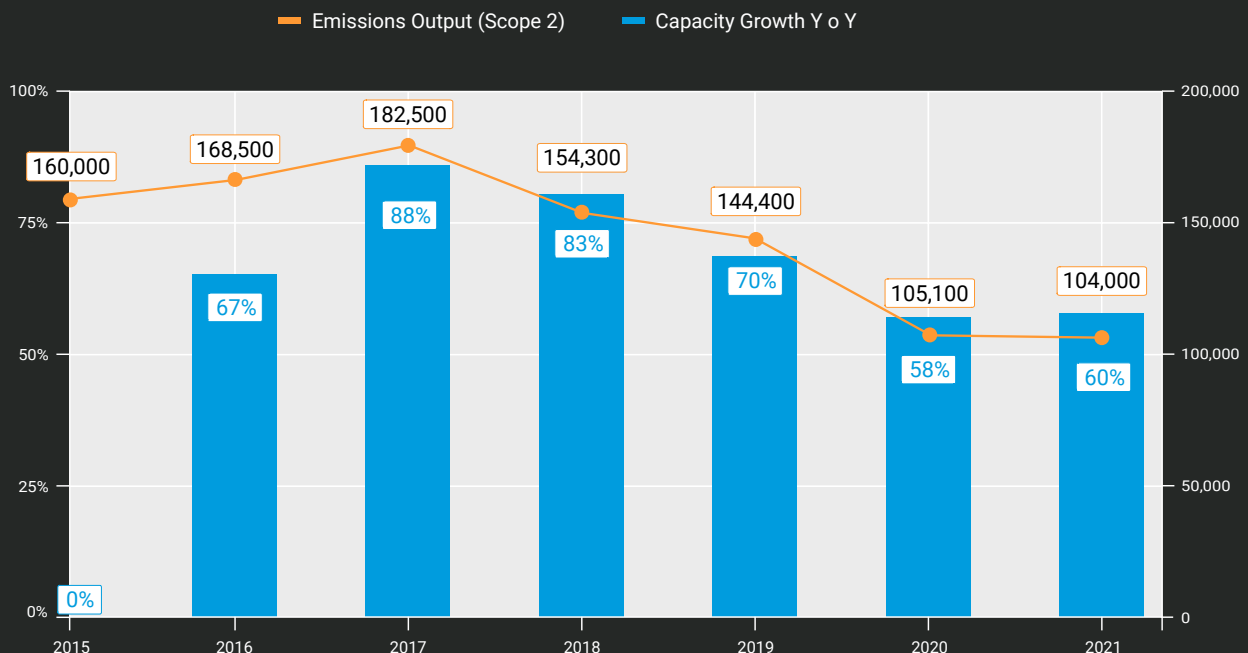
Setting forth such a bold goal requires not only that we understand our environmental impacts, but also that we take action with a short- and long-term carbon abatement plan. To establish a concrete pathway to achieve our goal and measure our progress, we joined the Science Based Targets Business Ambition for 1.5°C initiative.<sup>41</sup>

## Balancing risk and reward for a net-zero edge

Like many organizations, we hesitated at the thought of a net-zero emissions edge. A commitment like this is a risky endeavor – especially given the sporadic and explosive growth of the internet.

Akamai has seen our capacity increase by 60% since 2020, while our emissions have steadily decreased. In order to meet the demands of the modern internet, the Akamai Intelligent Edge operates in more than 4,000 locations and in more than 130 countries,<sup>42</sup> making up 92% of our global scope 1 and 2 emissions output.<sup>43</sup> This means that we rely on more than 2,300 unique facilities.<sup>44</sup> We must rely on support from various partners, including our carriers, colocation data centers, and Akamai Accelerated Network Partners.

### Emissions Impact to Capacity Growth<sup>45</sup>





We rely on these partners to keep our network up and running. Since power source availability is rarely under our direct operational control, we view it as our responsibility to work with our partners on renewable energy procurement best practices. In turn, this limits our control over sourcing renewable energy directly and increases the risk of falling short and not meeting our goals. Despite these headwinds, Akamai is excited to continue down this path to help build a more sustainable internet for everyone.

### A sustainable commitment to our customers

Akamai recognizes that our customers' use of our delivery, performance, and security solutions contributes to their overall carbon emissions profile. So as we get greener, they do, too. We firmly believe the responsibility for emissions reduction lies with the supply chain, and we continuously make strides to reduce our footprint.

Together, we can take collective environmental action by offering custom insights into the emissions from your use of Akamai services. We offer a personalized emissions report to help customers understand, manage, and ultimately reduce their environmental footprint.

When customers choose Akamai, they get more than the leading edge delivery and security provider — they get a sustainable partner.

Since 2018, Akamai has contributed to abating more than 220,000 MT emissions globally. We have avoided 110,000 MT of carbon emissions this year, despite capacity increases of 60%.<sup>46</sup>

We have developed a three-pronged plan to get us to a zero emissions edge by 2030. At the core of that plan is resource (renewable or not) efficiency and a steadfast focus on our global platform efficiency programs, our renewable energy procurements, and our supplier engagements described in this report.

## Setting science-based targets and joining the Race to Zero



Akamai is proud of our commitment to the Business Ambition for 1.5°C initiative during this year's Global Citizen Live<sup>47</sup> event. Many of the world's largest companies worked to develop verified science-based targets to reach net-zero emissions in line with the Paris Agreement. Akamai officially signed on to the Race to Zero<sup>48</sup> through the Global Citizen Live campaign. At the time of publication, Akamai is the only content delivery network committed to science-based targets.

This commitment has made Akamai part of a coalition of leading net-zero initiatives, representing 67 regions, 1,049 cities, 5,227 companies, 1,039 higher educational institutions, 441 of the biggest investors,<sup>49</sup> and more than 3,000 hospitals from 52 healthcare institutions.<sup>50</sup> Everyone involved in this effort must meet stringent criteria that will bring them to the starting line to credibly race to zero emissions. These participants are joining more than 120 countries in the largest-ever alliance committed to halving emissions by 2030 and achieving net-zero carbon emissions by 2050.<sup>51</sup>



## THE GREEN WEB FOUNDATION

Are you an Akamai customer?  
Want to see if your site is hosted green?  
Visit the green web foundation's site to find out:  
[thegreenwebfoundation.org](https://thegreenwebfoundation.org)

### Responsible supply chain management

Anyone familiar with environmental sustainability is also familiar with the potential positive impact that collective action can have. Since businesses today are so interconnected, it's critical to look beyond a company's own operations and take a holistic approach to responsible sourcing throughout its supply chain.

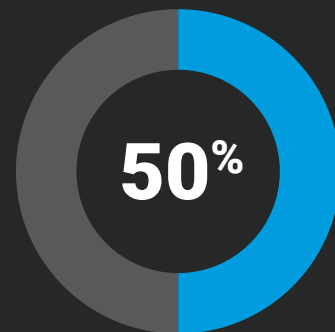
Akamai takes this notion of collective action seriously in our approach to our supply chain, engaging and working closely with our trusted suppliers. In 2021, we evolved our supply chain program and launched a Responsible Supply Chain Program (RSCP)<sup>52</sup> to realize our supply chain goals in all areas of ESG, including a focus on environmental sustainability.

Akamai's RSCP helps us to build a supply chain based on strong, transparent, and trusted supplier partnerships that are critical to improving business competitiveness while mitigating supply chain risks, creating opportunities for diverse representation, protecting our stakeholders, and inspiring better business.

### Our progress to a zero-emissions Intelligent Edge Platform

# 373,000

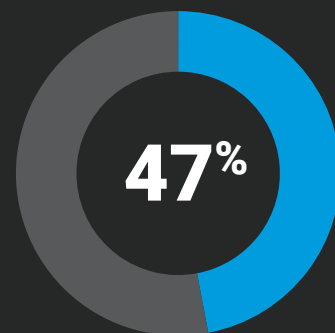
MWh Renewable Power in 2021<sup>53</sup>



Renewable Power Across  
Scope 2 and 3 Operations<sup>54</sup>

# 110,000

MT Emissions Output Avoided  
in 2021



Emissions Abated Across  
Scope 2 Operations<sup>55</sup>

## Responsible supply chain management

The fundamental goal of our RSCP is to ensure that our suppliers are aligned with Akamai's ESG values and goals:



Prioritize an environmentally conscious approach



Minimize risk and reputational impact



Reduce costs



Improve product quality



Strengthen supplier relationships and performance



Meet our customers' expectations and requirements



Improve competitive advantage

## Strategic planning for data centers<sup>56</sup>

It is crucial for Akamai to work with responsible suppliers across our business operations. Like most software and IT services companies, our data center colocation footprint makes up a considerable portion of our operational footprint. Therefore, we must continue to take action and infuse more environmental considerations into our colocation planning.

In partnership with CEBA<sup>57</sup> and alongside other forward-thinking businesses, we have prioritized integrating environmental considerations into the strategic planning process for the Akamai Intelligent Edge Platform.

Through our participation in CEBA, Akamai helped create a best-in-class guideline focused on defining the most beneficial practices in the corporate colocation and cloud procurement space. As a signatory of FoIP's Corporate Colocation and Cloud Buyers' Principles, Akamai has agreed to the following goals:<sup>58</sup>

1. **Options:** Provide options for cost-competitive services powered by renewable resources that reduce emissions beyond business as usual
2. **Data:** Deliver monthly data on the colocation customer's direct and indirect energy consumption, water consumption, greenhouse gas emissions, and other environmental data
3. **Incentives:** Align the partnership between customer and service provider, so both parties have an incentive to reduce energy consumption
4. **Collaboration:** Provide options for customer collaboration on efficiency and renewable energy enhancements
5. **Disclosure:** Disclose individual sites and total global corporate footprint, as well as site-specific energy sources
6. **Advocacy:** Engage in policy advocacy efforts that support the use of renewable energy

Ensuring our colocation and cloud service providers support these principles will continue to help Akamai, and other companies using their services, to meet their sustainability goals.

## Data center considerations<sup>59</sup>

Each year, Akamai reviews our colocation request for information (RFI) requirements on environmental standards and considerations for the procurement of a given space. With the ever-changing ESG landscape, we believe it is essential to ask our suppliers specific questions to evaluate whether they can meet the requirements. This past year, we updated our colocation RFI to seek more detailed information about:

- Access to renewable energy
- Ability to procure renewable energy
- Power usage effectiveness (PUE) of the space
- Water usage effectiveness (WUE) of the space
- Ability to attest to renewable energy allocated to Akamai's operations

In addition, we are constantly working with our partners to understand the availability of renewable energy or general site efficiencies that are being implemented. These interactions help us understand how additional efficiencies and renewable energy contribute to our sustainability goals in the short and long terms to support our zero-emissions platform and 100% renewable energy goals.

## Global expansion of 100% e-waste recycling

Akamai is committed to continue recycling 100% of our e-waste. Today, we ship all our e-waste — including servers around the world — to e-Stewards—certified facilities in the United States for appropriate processing. While it may not be the greenest process, it allows us to ensure the highest standards for the security of customer data, the effective downstream management of all toxic materials, and legal and responsible exporting.

Over the next decade, we will continue to work to improve our e-waste management process and engage with e-Stewards—certified partners to recycle all of our e-waste responsibly and efficiently.





## Engaging Employees to Reach Our Goals



Our sustainability goals are ambitious and they require commitment from everyone at Akamai. Our employees, both individually and collectively, play a crucial role in enabling us to achieve these goals and fulfill our purpose.

By tapping into the cumulative power of our employees, we can improve life on and off the internet. That's why we focused in 2021 on raising awareness and engaging our employees with regard to Akamai's environmental impact and our 2030 sustainability goals.

This year's sustainability engagement campaign was bolstered by the launch of Akamai Spark, a digital platform that hosts Akamai's wellness, sustainability, foundation, and Employee Resource Group (ERG) activities. Spark is where our employees can participate in wellness competitions, learn about ways to reduce their environmental impact, connect with our local communities, or volunteer with their favorite charity. It is also the new home for our ERGs — the place where employees can manage their affinity group membership and sign up for ERG-hosted activities.

Through Akamai Spark, our employees are learning, engaging, and being inspired to take action today to care for the planet of tomorrow. In 2021, we executed three signature campaigns for employees: Akamai Earth Month in April, World Environment Day in June, and volunteer opportunities for Danny Lewin Community Care Days in September.





Akamai Earth Month 2021 included engagement campaigns, virtual events, an art contest for the children of Akamai employees (led by our Parents' ERG), learning opportunities, and our cornerstone competition, Earth Month: 30 Acts for 30 Days. The competition was designed with a simple goal: to help Akamai employees join together to help the planet one act at a time. Nearly 200 employees participated in Akamai Earth Month, taking more than 3,300 actions, big and small, for the planet and uploading 400+ pictures of how they were inspired to give back to our Earth.

For World Environment Day, Akamai released our first company-wide environmental sustainability education program. The program helps employees gain a better understanding of our environmental sustainability program, how it fits into our ESG mission, why it's important to our customers and other stakeholders

(and to our long-term success), and what role employees can play in our environmental sustainability efforts.

Furthermore, we host an annual internal competition called Wizards. In this program, we encourage employees to submit ideas on how to better improve Akamai: our products, customer experience, and network efficiency. In this program, there is also an option to submit ideas for sustainability improvements; no idea goes unheard.

We know that lasting change will take all of us working together. Our commitment and progress on shared ESG objectives helps ensure our collective commercial competitiveness, sustainability, and success all the way up and down the Akamai value chain.



## Additional Sustainability Initiatives

In addition to our five key goals for 2030, Akamai is devoting time and resources to programs that are driving progress on a range of sustainability initiatives across our industry and around the world.

These include:

### Akamai Accelerator Program

India is one of the most water-stressed countries on the planet.<sup>60</sup> In response, Akamai's India Corporate Social Responsibility team has been hard at work developing a program focused on water innovations to reduce water stress felt around the world.

Our answer to this challenge is the Akamai Accelerator Program, which enables early-stage innovations for water conservation. Over the past two years, we joined our mentoring partner, the International Center for Clean Water (ICCW, an initiative of the Indian Institute of Technology Madras), to onboard social innovators and enabled collaboration to find ways to mitigate avoidable water loss. We discovered that urban water utilities in India lose about 25% of the water they produce in distribution because of leaking pipes, metering error, and theft.<sup>61</sup>

**“The Akamai Accelerator Program has significantly enabled us in our outreach to the urban water utility sector in India and to conduct MVP [minimum viable product] testing of our product.”**

— Giridharan Sengaiah (participant),  
SmartTerra Co-founder and Vice President<sup>62</sup>

## Business vs Smog Poland

In 2021, Akamai Poland participated in the fourth edition of Business vs Smog, a program sponsored by PwC Poland.<sup>63</sup> Along with other companies in Krakow and the ASPIRE Poland Association, Akamai employees have committed to educating students on the importance of environmental awareness, with a focus on air quality, to invest now for a future generation of more conscious citizens.



## Building international collaboration

Akamai has committed to developing new industry partnerships to accelerate the clean energy transformation. We are a founding member of Greening of Streaming, one of our major European alliances. The organization was formed to address the growing concerns about the energy impact of the streaming sector. The world has become increasingly reliant on streaming services for business, entertainment, and social interactions. Greening of Streaming will bring together streaming companies from all over the world to share best practices and make the industry more efficient.<sup>64</sup>

## Climate and clean energy advocacy

To help drive systematic change across the industry, we participate in conversations focused on long-term environmental improvement. Important climate policies are being debated at every level of government – in cities, counties, states, and countries – and we are stepping up and speaking out for climate policy.

Some highlights of our 2021 work include:



**Environmental justice:** On March 26, 2021, the Governor of Massachusetts passed S.9, An Act Creating a Next Generation Roadmap for Massachusetts Climate Policy.<sup>65</sup> Akamai was instrumental in the support of language that prioritizes the inclusion of provisions that address existing inequities and support environmental justice communities. Akamai believes that everyone should have a voice when it comes to climate change, and the new legislation will help Massachusetts build a stronger and more equitable economy for all.<sup>66</sup>



**LEAD on climate:** In April, Akamai joined more than 330 businesses to call on congress<sup>67</sup> to pursue initiatives for a more just and resilient economy that also addresses the urgent threat of climate change. These discussions were focused on investments in infrastructure, emissions reductions, the development of well-paying clean-energy jobs, and environmental justice to secure a sustainable future in line with the Biden administration net-zero goal by 2050.



**U.S. nationally determined contribution:** Akamai believes that bold climate reduction targets are important. Bold targets are needed to catalyze a zero-emissions future, spur a robust economic recovery, create millions of well-paying jobs, and allow the

United States to “build back better” from the pandemic. New investments in clean energy, energy efficiency, and clean transportation can build a strong, more equitable, and more inclusive American economy. Akamai is proud to support and participate in the combined legislative effort with the We Mean Business Coalition.<sup>68</sup>



**Building decarbonization:** Akamai believes that our operations should not have a negative impact in the areas in which we operate. Our goal of greater operational efficiency is exemplified by our new LEED Platinum Headquarters in Cambridge<sup>69,70</sup> and we recognize it is important to decarbonize the building sector. On June 16, 2021, Akamai joined government officials to discuss the adoption of policies to decarbonize commercial buildings. For example, in Massachusetts, buildings are responsible for 27% of GHG emissions statewide.<sup>71</sup> Akamai recognizes the need for urgent action and is committed to sharing best practices.



**COP26 / Clean Energy Demand Initiative:** Akamai believes it is important to open energy markets to get access to renewable energy. In partnership with the Clean Energy Buyers Association (CEBA)<sup>72</sup> member companies, on November 4, 2021, Akamai participated in accelerating clean energy development with senior government sponsors from around the world. These letters were publicly signed at COP26 in the U.S. Center, witnessed by U.S. Special Presidential Envoy for Climate, John Kerry, along with several other countries’ representatives.



## Let's Work Together to Build a More Sustainable Internet

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Akamai's sustainability program is not at odds with our purpose of making life better for billions of people, billions of times a day. Instead, it directly supports it. Sustainability elevates our ability to make life better online by securing and delivering the world's internet content while reducing our impact on the environment.

We are truly excited to realize the plans and initiatives we have seeded in 2021 and look forward to building a better internet together. We all share in the benefits of the internet. It is time we take responsibility for greening it.



## Appendices

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### A1a | Measurement transparency statement

At Akamai, we believe it is important to be transparent about the effects our operations are having on the global environment. To ensure we are meeting the highest standards in our industry, Akamai works with a third-party auditor that focuses on the accuracy of our carbon emissions reporting in scopes 1, 2 and 3. We reconcile our impact annually and routinely follow the plan-do-check-act procedure to lower our GHG footprint in the areas where we can have the most material impact. Our auditor adheres to the ISO 14063-3: Greenhouse gases — Part 3: Specification with guidance for the validation and verification of GHG statements. Because of the distributed nature of our platform, our verification process has a materiality threshold of  $\pm 5\%$  for aggregate errors in the sampled data for each of the areas for which we account and attest. A copy of our latest GHG audit can be found on our website: [akamai.com/sustainability](https://akamai.com/sustainability).



## A1b | Reporting transparency

Transparency is fundamental to Akamai's sustainability initiatives. We are committed to voluntary annual disclosure of our goals and strategies to encourage accountability in our practices and progress. The following is a list of organizations to which we report or of which we are a part:

### Reporting



CDP runs the global environmental disclosure system. Each year CDP supports thousands of companies, cities, states and regions to measure and manage their risks and opportunities on climate change, water security and deforestation. We do so at the request of their investors, purchasers and city stakeholders.

Member of  
**Dow Jones  
Sustainability Indices**  
Powered by the S&P Global CSA

The Dow Jones Sustainability Indices (DJSI) are a family of best-in-class benchmarks for investors who have recognized that sustainable business practices are critical to generating long-term shareholder value and who wish to reflect their sustainability convictions in their investment portfolios.



EcoVadis helps companies manage their network both upstream and downstream, either by sharing their performance with their stakeholders or monitoring the performance of their own upstream value chain.



**FTSE4Good**

The FTSE4Good Index Series is designed to measure the performance of companies demonstrating strong Environmental, Social and Governance (ESG) practices.



## Reporting



GRI (Global Reporting Initiative) is the independent, international organization that helps businesses and other organizations take responsibility for their impacts, by providing them with the global common language to report those impacts. They are the provider of the world's most widely used standards for sustainability reporting – the GRI Standards.



Just Capital is an independent nonprofit that tracks, analyzes, and engages with large corporations and their investors on how they perform on the public's priorities. Their research, rankings, indexes, and data-driven tools empower all market participants to help build a more **just** economy.



The Sustainability Accounting Standards Board is an independent standards board that is accountable for the due process, outcomes, and ratification of the SASB standards, including any changes to the standards. SASB connects businesses and investors on the financial impacts of sustainability.



## Organization Memberships



Ceres is a sustainability nonprofit organization working with the most influential investors and companies to build leadership and drive solutions throughout the economy. Through powerful networks and advocacy, Ceres tackles the world's biggest sustainability challenges, including climate change, water scarcity and pollution, and inequitable workplaces.



e-Stewards is a global team of individuals, institutions, businesses, non-profit organizations, and governmental agencies upholding a safe, ethical, and globally responsible standard for e-waste recycling and refurbishment. We stop the export of illegal hazardous e-waste to developing nations and create a safe, green, and just world through sharing and using the principled and practical standard for electronics recycling and reuse.



Engage for Good, founded as Cause Marketing Forum in 2002, has the goal of providing business and nonprofit professionals working at the intersection of cause and commerce with the practical information and connections they need to succeed.



The Future of Internet Power initiative brings together companies to address challenges and collaborate on solutions that will enhance the ability to procure renewable energy to power data centers.

## Organization Memberships



The Clean Energy Buyers Association (CEBA) is a membership association for large-scale energy buyers seeking to procure renewable energy across the U.S. Stakeholders come together from across the commercial and industrial sector, non-profit organizations, as well as energy providers and service providers.



The Sustainable Purchasing Leadership Council (SPLC) is a non-profit organization whose mission is to support and recognize purchasing leadership that accelerates the transition to a prosperous and sustainable future.



Sustainability Roundtable Inc (SR Inc) is a leader in outsourced environmental, social, and governance (ESG) management. They provide a confidential, membership-based, strategic advisory and support service for management teams to set goals, drive progress, and report results (internally and externally) as they lead their organizations to more sustainable high-performance.

## A2 | Carbon accounting

GHG protocol establishes comprehensive global standardized frameworks to measure and manage GHG emissions from private and public sector operations, value chains, and mitigation actions. Akamai has taken the accepted scope framework and applied the methodology to our own business activities.

### Scope 1

Scope 1 (also known as direct GHG emissions) includes fuel combustion, company vehicles, and fugitive emissions. As an example, scope 1 can include any production of electricity through a generator that burns fuel for power or through building equipment that produces gasses/vapors. Other emissions sources from scope 1, such as fugitive emissions, are gases or vapors from equipment that contribute to building operations that could cause air pollution and climate change.

#### Scope 1 focus areas

Akamai focuses on several areas under scope 1, including any impact our office buildings may have on the environment. Under these definitions, we report on our:

- Diesel generator emissions
- Natural gas generator emissions
- Gasoline generator emissions
- Off-gassing from building mechanical systems
- Company-owned vehicles

### Scope 2

Scope 2, also known as indirect GHG emissions by a company, includes the consumption of purchased electricity, heat, or steam. This includes all direct leased colocation (colo) operations that impact

the cost of goods sold. These larger deployments include servers, switches, routers, and various network components. Another example of scope 2 would be natural gas purchased to heat the buildings Akamai leases.

#### Scope 2 focus areas

Akamai focuses on several areas under scope 2, including our direct office operations and our various types of colo deployments. Under these definitions, we report on our:

- Electricity emissions from colo operations, including AODC server, switch, router, and network component electricity; and colo server, switch, router, and network component electricity (not including indirect impact, Akamai Accelerated Networks Partners [AANP], free space, and power deployments)
- Colo operations electricity (mechanical, lighting, and common area, not including indirect impact, AANP, free space, and power deployments) when fully controlled
- Office electricity
- Lab electricity (cooling if available)
- Office heating, steam, and natural gas consumption
- Renewable energy VPPAs, RECs, and guarantees of origin (GOs)

Akamai includes a portion of a given facility's mechanical cooling, lighting, and common-area power when the space is fully controlled by Akamai. This is based on an average yearly PUE spread across the entire footprint to ensure we accurately account for our operational usage.

## Scope 2 renewable energy methodology

Akamai tracks and monitors green power generation from renewable energy purchases at scope 2 facilities as a part of our overall scope 2 GHG footprint. The category of contractual instruments when calculating the market-based method will take into account the following areas:

- Energy attribute certificates (GOs, RECs)
- Direct contracts, such as PPAs and VPPAs, where other instruments or energy attribute certificates do not exist
- Pass-through from vendors through letters of attestation to Akamai
- Supplier-specific emission rates
- Residual mix (for example, the emissions rate left after the three other contractual information items are removed from the system)

In an effort to limit our impact on the environment, Akamai participates in the Renewable Energy Buyers Alliance Future of Internet Power: Documentation Requirements for Supplier-Procured Renewable Energy, a collaborative initiative composed of users and providers of colo data center services. The document provided the groundwork for innovative pass-through renewable energy reportable as scope 2 emissions in facilities that are operated by providers of colospace. The procurement of renewable energy by our colo providers now has a direct impact on scope 2 emissions; that is, on how much of the footprint is renewable without additional renewable energy procurement.

## Scope 3

Scope 3 covers remaining areas of indirect emissions coming from business operations. For example, this would include the emissions coming from the creation of our designed hardware, electricity usage coming from AANP, corporate travel, and waste disposal. Scope 3 generally focuses on the remaining operations coming from up the value chain, and also has a focus on upstream and downstream activities. Upstream includes all of the emission factors that occur when a product is sold by the producer. Downstream occurs once the product is sold, and includes storage and end-of-life activities, such as shipping and recycling.

### Scope 3 focus areas

When considering the reporting areas that fall into scope 3, Akamai will focus mainly on our wider footprint and upstream indirect emissions and will report in the following areas:

- Emissions to manufacturing network hardware (capital goods)
- Fuel and energy-related activities, including transmission and distribution losses
- Emissions related to transporting hardware (upstream transportation and distribution)
- Emissions related to storing hardware (upstream distribution)
- Business travel, including corporate commercial and private travel
- Upstream leased assets (free space and traffic [AANP], diesel generators, PUE where applicable)



## A3 | Method of calculation

Akamai follows the GHG Protocol Corporate Accounting and Reporting Standard developed by the World Business Council for Sustainable Development and the World Resources Institute. We believe using this standard will ensure that our company is meeting all the criteria required to report to our external sources with the highest levels of integrity, transparency, and accuracy. In addition, Akamai will augment the reporting and GHG accounting process with the GHG Protocol Scope 2 Guidance Document and Technical Guidance for Calculating Scope 3 Emissions to ensure continuity and accuracy across the reporting process. These criteria of verification are also used in our GHG accounting audit conducted yearly.



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## Disclaimer

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